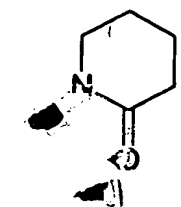
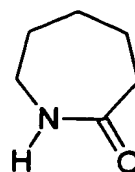


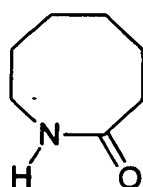
Endocyclic amides



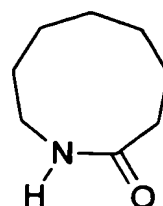
$\delta$ -Valerolactam



$\epsilon$ -Caprolactam

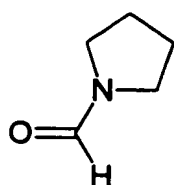


2-Azacyclooctanone

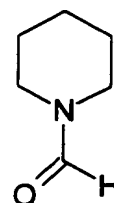


2-Azacyclononanone

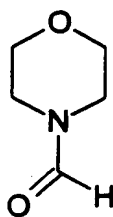
Exocyclic amides



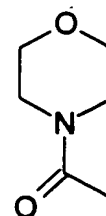
N-formyl pyrrolidine



N-formyl piperidine



N-formyl morpholine

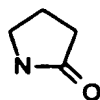


N-acetyl morpholine

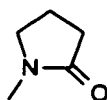
**FIG. 1**

205270 2769507 10056917 012502

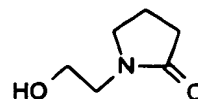
Pyrrolidones



2-pyrrolidone

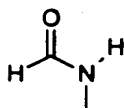


N-methylpyrrolidone (NMP)

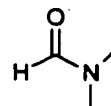


N-hydroxyethylpyrrolidone (HEP)

Formamides

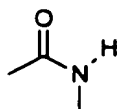


N-methylformamide (MMF)

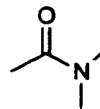


N,N-dimethylformamide (DMF)

Acetamides

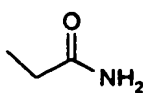


N-methylacetamide (MMA)

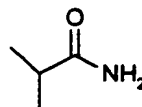


N,N-dimethylacetamide (DMA)

Higher-chain primary amides



propionamide

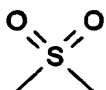


isobutyramide

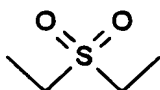
FIG. 2

2052270" 2769500T

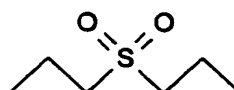
n-Alkyl sulfones



Methyl sulfone



Ethyl sulfone

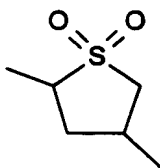


n-Propyl sulfone

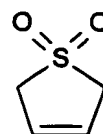
Cyclic sulfones



Tetramethylene sulfone  
(Sulfolane)



2,4-Dimethylsulfolane



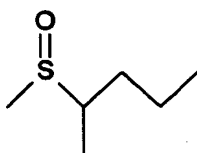
Butadiene sulfone  
(Sulfolene)

**FIG. 3**

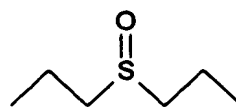
10056917 012502



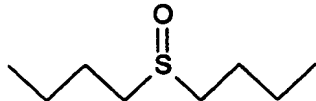
Methyl sulfoxide



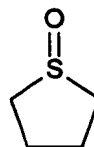
Methyl sec-butyl sulfoxide



n-Propyl sulfoxide



n-Butyl sulfoxide



Tetramethylene sulfoxide

FIG. 4

405691 012502